

REMARKS

In view of the above amendments and the following remarks, reconsideration of the objection and rejections, and further examination are respectfully requested.

The specification and abstract have been reviewed and revised to improve their English grammar and U.S. form, as well as address the informalities in the abstract identified in items 1 and 2 of the Office Action. Specifically, the legal phraseologies have been removed from the abstract. The amendments to the specification and abstract have been incorporated into a substitute specification and abstract. Attached are two version of the substitute specification, a marked-up version showing the revisions, as well as a clean version. No new matter has been added.

Original claims 1-19 have been cancelled without prejudice or disclaimer to the subject matter contained therein and replaced by new claims 20-35.

Claim 1 was rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically, claim 1 was rejected for being indefinite based on the phrase “the values of stipulated parameters” lacking antecedent basis. This rejection is considered moot based on the cancellation of claim 1. Further, it is respectfully submitted that this rejection is inapplicable to new claims 20-35, since new claims 20-35 have been drafted to comply with the requirements of 35 U.S.C. § 112, second paragraph.

New Claims 20-29 Recite Subject Matter Identified as Allowable by the Examiner

Dependent Claims 3-7, 9-13, and 15-19 were identified by the Examiner as being allowable if rewritten in independent form to include all of the limitations of the respective base claims (i.e., claims 2, 8, and 14) and any intervening claims. The Applicants would like to thank the Examiner for this indication of allowable subject matter.

New independent claim 20 recites subject matter similar to that recited by original base claim 2 and original dependent claim 7 which was identified by Examiner as containing allowable subject matter. Further, new independent claim 26 recites subject matter similar to that recited by original base claim 8 and original dependent claim 9

which was identified by Examiner as containing allowable subject matter. Moreover, new independent claim 28 recites subject matter similar to that recited by original base claim 8 and original dependent claim 10 which was identified by Examiner as containing allowable subject matter.

Accordingly, in view of the Examiner's indication of allowable subject matter as discussed above, it is submitted that new independent claims 20, 26, and 28, and the claims that depend therefrom, are allowable.

New Claims 30-35 are Patentable over the Miyatani Reference

Original claims 1, 2, 8, and 14 were rejected under 35 U.S.C § 102(e) as being anticipated by Miyatani (U.S. 2002/0041209). New claim 30, which is similar to original claim 14, has been drafted so as to distinguish the present invention, as recited therein, from Miyatani. As a result, this rejection is submitted to be inapplicable to claims 30-35 for the following reasons.

New independent claim 30 recites a distortion compensator for compensating for distortion generated by an amplifier, the distortion compensator including, in part, (1) a distortion compensation execution unit operable to execute distortion compensation based on (a) a level of a signal to be amplified, and (b) a correspondence between signal levels and distortion compensation control values, (2) a distortion compensation control value correspondence updater operable to update the correspondence between the signal levels and the distortion compensation control values, and (3) an update frequency controller operable to control a frequency at which the correspondence between the signal levels and the distortion compensation control values is updated. Miyatani fails to disclose or suggest the update frequency controller as recited in claim 30.

In contrast to the present invention as recited in new claim 30, Miyatani teaches a distortion compensation apparatus which utilizes (1) a signal level detector 65, (2) a controller 74, (3) a variable attenuator 62, (4) a variable phase shifter 63, (5) a first memory 67 storing a look-up table (LUT) for controlling the variable attenuator 62, and (6) a second memory 68 storing a LUT for controlling the variable phase shifter 63 (see Fig. 10). Further, Miyatani teaches that the controller 74 adaptively rewrites the contents of the LUTs in the first and second memories 67 and 68 according to a level of distortion

detected (see paragraph [0244], and [0248]).

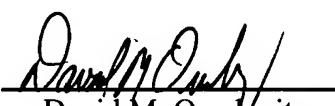
Based on the above discussion, it is apparent that controller 74 disclosed by Miyatani updates the LUTs by adaptively rewriting the contents of the LUTs into the first and second memories 67 and 68. However, Miyatani does not disclose or suggest an update frequency controller which controls the frequency (i.e., rate) at which the LUTs are updated.

In view of the above, it is respectfully submitted that the Miyatani reference does not anticipate the invention as recited in new independent claim 30, because the Miyatani reference does not teach or suggest the features of the update frequency controller recited in claim 30. Furthermore, it is submitted that one of ordinary skill in the art would not be motivated to modify the Miyatani reference so as to obtain the invention of claim 30. Accordingly, it is respectfully submitted that new independent claim 30, and the claims that depend therefrom, are clearly patentable over the prior art of record.

In view of the above amendments and remarks, it is submitted that the present application is now in condition for allowance and an early notification thereof is earnestly requested. The Examiner is invited to contact the undersigned by telephone to resolve any remaining issues.

Respectfully submitted,

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